

### General features



Disclaimer:  
Images are purely  
indicative. The features  
and the accessories of the  
products may differ  
according to model and  
application.

<b>Intended use</b>	Refrigerator destined to store and preserve vaccines, pharmaceutical products, bacterial cultures, samples, analysis materials, chemical products, and other laboratory formulas, to support therapy and/or prevention in clinical centers, hospitals, pharmacies, and laboratories.
<b>Temperature range</b>	Adjustable -40°C / -20°C
<b>Factory setpoint   Increment</b>	-35°C   0.1°C
<b>Ambient working class   Climatic class</b>	From +16°C to +25°C   C
<b>Nominal capacity</b>	700 lt (24,7 cu ft)
<b>Gross capacity   Net capacity</b>	620 lt (21,9 cu ft)   544 lt (19,22 cu ft)
<b>External dimensions (WxDxH)</b>	75x88x205,5 cm
<b>Internal dimensions (WxDxH)</b>	60x68,6x130 cm
<b>Net weight without any internal fittings</b>	150 kg
<b>Package dimensions   Weight</b>	Cardboard on pallet 77x94x211 cm   weight 168 kg Wooden crate on pallet 84x98x211 cm   weight 182 kg
<b>Structure</b>	Monocoque type body, made of plasticized, non-toxic white steel interior/exterior, coated with a special antibacterial-type film, or in inner 18/10 Aisi 304 stainless steel. Rounded corners and tray-type inner bottom.
<b>Insulation type</b>	High density (43 kg/m <sup>3</sup> ) in-walls injected PUF, without any CFC, environmental-friendly, water-foam based.
<b>Insulation thickness</b>	75 mm
<b>Feet</b>	No.4 adjustable feet
<b>Door</b>	No.1 solid door with ergonomic handle all door length, self-closing thanks to the spring hinge and 90°stop position.
<b>Energy saving functions</b>	Night & Day function
<b>Internal fittings</b>	Customizable and height adjustable, it can mix independently: <ul style="list-style-type: none"> <li>• wire shelves supported by adjustable clips (dim.cm 56x65)</li> <li>• extractible drawers made of aluminium, with dividers (WxDxH): cm 14,9x60x7,5 (nr 3 compartments)</li> <li>• extractible drawers made of aluminium, without dividers (WxDxH): cm 48,9x60x7,5</li> <li>• st. steel wire basket on slides (WxDxH): cm 53,8x63x14,8</li> <li>• st. steel wire drawers on slides (WxDxH): cm 53,8x60,5x6,2</li> <li>• st. steel wire shelves supported by adjustable clips (dim.cm.56x66)</li> </ul>
<b>Suggested internal fittings</b>	No. 3 wire shelves

### Refrigeration system

<b>Refrigeration</b>	Professional, ventilated, forced, hermetic compressor type
<b>Defrost</b>	Automatic, adaptive, with collection of condensate water
<b>Refrigerant</b>	Natural R290
<b>GWP   ODP</b>	3   0

## Electronic controller



<b>Controller</b>	TOUCH controller
<b>Type of controller</b>	Electronic controller, FULL TOUCH SCREEN 7" display, resolution 0,1°C, easily readable from the distance, with a real time temperature graph and all operational data always available on the homepage.
<b>Power switch</b>	Integrated in user's interface
<b>Security features</b>	Settable user password Visual and acoustic for temperature alarms failures such as:
<b>Alarm system</b>	<ul style="list-style-type: none"><li>• Open door</li><li>• High temperature</li><li>• Low temperature</li><li>• Power failure, signaled when power is back.</li><li>• Clogged condenser</li><li>• Any functional failure/faulty parts</li></ul>
<b>Data and event recording</b>	Latest 32 events displayed, 10 years data recorded on SD card and 1 year on flash memory, downloadable from USB port
<b>Settable temperature limits alarms</b>	Yes
<b>Control sensors</b>	NTC type probes for controller board + PT100 for DMLP monitor board (optional)
<b>Safety thermostat</b>	Included, to prevent freezing and overheating
<b>Connectivity for remote alarms transmission</b>	Set-up on the electronic controller board, can be remoted on request. Modbus TCP/IP protocol available for data reading
<b>Temperature recording</b>	Full recording of temperatures and alarms data
<b>Data export</b>	USB, SD and RJ45.

## Electrical and functional data

<b>Standard power supply</b>	230V / 1ph / 50Hz
<b>Standard plug type</b>	Schuko type "G"
<b>Compressor protection</b>	Overload Protector included
<b>Power absorption/current</b>	kW 1,5 (Amp 7)
<b>Inrush current</b>	Amp 7
<b>Noise level</b>	<60 Dba
<b>Heat emission according to EN 12900</b>	W 460
<b>Hold over time at 20°C ambient (air)</b>	4,8 h (from -40°C to 0°C)
<b>Energy consumption at 20°C ambient</b>	11 kWh/24h

## Compliance

<b>Directives and regulations</b>	The offered unit complies with Regulation (EU) 2017/745 and subsequent modifications and integrations, Risk Class I (All. VIII, Cap. III, Reg. 2). The equipment is also fully compliant with the specific requirements of the norms: Directive 2006/42/EC (Machines Directive), Directive 2014/30/EU (EMC), Directive 2014/35/EU (LVD), Regulation (EU) 2024/573 (F-gas), Directive 2012/19/EU (RAEE) Regulation (EC) n.1907/2006 (REACH) Directive 2011/65/UE (ROHS II) including subsequent modifications and integrations
<b>Available certificate</b>	CE
<b>Application environment</b>	Non-flammable, non-explosive, non-corrosive, with adequate air exchange

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## Accessories available on request

<b>Visual and acoustic alarm for power failure</b>	No.8 rechargeable batteries, AA, Ni-MH type, environmental friendly and easily replaceable, to feed power failure alarm
<b>External contacts (Ethernet+ potential free) terminal board</b>	
<b>Electric-digital lock with password protection</b>	Digital lock, the door is opened by touching an icon on the display. The function may be password protected. Mechanical release key supplied for emergency opening.
<b>GSM module (including buffer batteries)</b>	Plug-in module to notify on mobile phones, via sms, overall monitoring, alarms and failures of the refrigerator
<b>Converter module type 4-20mA (including contacts terminal board)</b>	External contacts included (this accessory excludes the installation of the GSM module)
<b>Wi-Fi module</b>	Plug-in module to connect to, monitor and manage the refrigerator wirelessly
<b>Compliance kit to DIN 13277</b>	Includes the electric digital lock, buffer batteries for power failure alarm signal and the external terminal board with potential free contact
<b>DMLP TOUCH Digital Monitor</b>	Visual, acoustic alarm and fully independent recording system, with accuracy 0,1 °C thanks to the PT100 probes used for temperature detection. DMLP will take over alarming function when installed as integrated module on the Ect-f Touch controller board. The module is fed by standard rechargeable batteries (power failure alarm batteries included) to register temperatures and events even in case of power outage. Data download and their management are made possible by CAPTURE software, supplied on board on the SD card, through which tables and graphs are created
<b>PT100 product temperature simulation probe</b>	
<b>FIOCCHETTI COLD EYES cloud monitoring</b>	Annual monitoring service, Cloud based, featuring the notification of alarms and failures from pc thanks to a dedicated app, including SMS messages and emails, also allowing the full download of recorded data.
<b>FIOCCHETTI LAN SUPERVISOR</b>	Monitoring system allowing the supervision of one or several refrigerators thanks to the access to historical data and to present equipment status. It allows the creation and export of temperature graphs of selected periods or of specific hours. A single license enables the connection of up to 100 refrigerators installed in the same building and connected to the same net (e.g., a hospital).
<b>Additional wire shelf kit</b>	
<b>Extractible drawer on slides</b>	
<b>Extractible drawer without inner dividers on slides</b>	
<b>St. steel wire shelf kit</b>	
<b>St. steel wire drawer on slides</b>	
<b>St. steel wire basket on slides</b>	
<b>Perforated stainless steel shelf</b>	
<b>Rack 140x500x150H mm (max 3 per each shelf)</b>	
<b>Plexiglas front panel for extractible drawer</b>	
<b>Castors kit with brakes</b>	
<b>35 mm access port with stopper</b>	
<b>Port hole mm 15</b>	
<b>Tray for automatic evaporation of condensate water</b>	
<b>PT100 sensor with free contacts</b>	
<b>Mains voltage stabilizer</b>	
<b>Non-standard plug and cable</b>	
<b>Power 220V/60Hz</b>	
<b>Power 115V/60Hz</b>	
<b>Wooden crate package</b>	

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